

Stormwater Advisory Committee Summary of Committee Activities & Recommendations

City of Lodi Columbia County, Wisconsin

MSA Project No. 0800702

November 19, 2007

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City of Lodi, WI

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Executive Summary

In September and October 2007, Mayor Paul Fisk convened a Stormwater Stakeholder Advisory committee comprised of residents, business owners, and representatives from the school district and a local environmental group to identify stormwater management priorities and explore the possible creation of a stormwater utility in the City of Lodi. The citizen committee (see Appendix 2) met four times with staff from MSA Professional Services, Inc., to learn more about stormwater issues, existing and potential stormwater management activities in the City of Lodi, and a stormwater utility as a possible financing tool for future activities relating to stormwater management. Throughout the process, committee members shared their experiences, opinions about what should be included under Lodi's municipal stormwater management program, and how these activities should be funded. This report provides an overview of the materials presented and discussed at the series of meetings, and general conclusions reached by the Stormwater Stakeholder Advisory committee.

Overview of Committee Meetings

At the first meeting, MSA provided an introduction to general stormwater issues, and participants discussed their knowledge of stormwater management in Lodi. Each participant worked with a map of the City area to pinpoint particular stormwater management issues or needs.

The second meeting focused on results of a photolog exercise, for which participants were given disposable cameras to record and make notes on stormwater issues in and around the City. MSA shared a list of Lodi's current stormwater management activities for participants to review. Participants asked MSA to share available data on the Spring Creek Watershed to gain a better understanding the affects of urban stormwater runoff/

At meeting three, MSA began by providing a summary of available information on the Spring Creek Watershed. Using estimates provided by the City of Lodi Public Works Department and experiences from other commuities, MSA shared cost estimates for several types of existing and potential stormwater management activities. Members worked in groups with the cost estimates to define an ideal stormwater management program for the City of Lodi.

The emphasis of meeting four was to gain an understanding of how municipalities use stormwater utilities as alternative funding mechanisms for stormwater management, and ultimately come to a committee recommendation as to whether the creation of a stormwater utility was right for Lodi at this time. Annual budget estimates for existing and "ideal" stormwater management programs in Lodi were reviewed. MSA staff explained the differences between funding stormwater management with property tax versus a stormwater utility, sharing data from other communities across the state. MSA shared an overview of how property owners annual stormwater fees would be derived in Lodi based on the relative amount of impervious surface on the property. After discussion, participants were asked to share in writing their recommendation regarding the creation of a stormwater utility in Lodi.

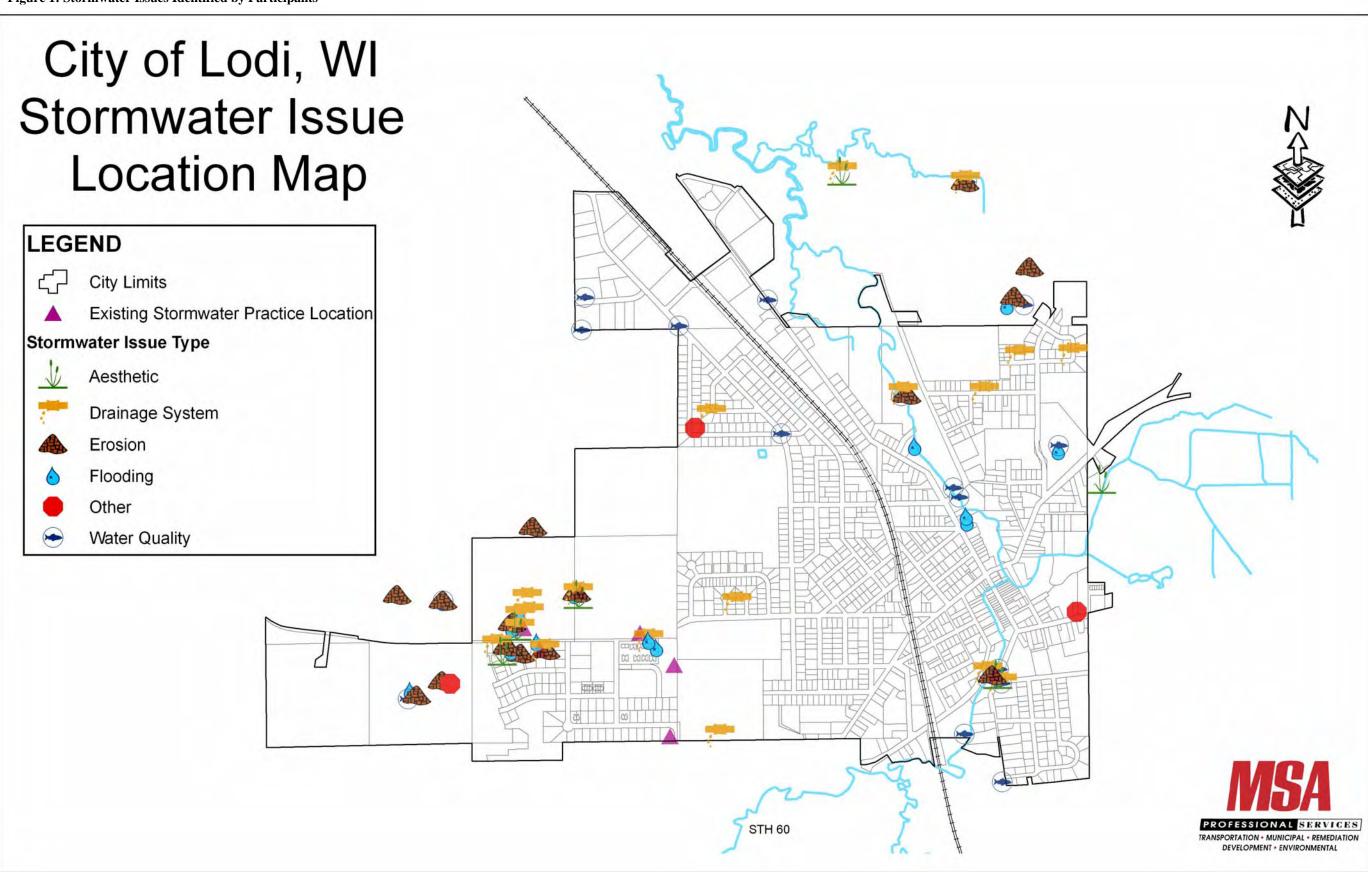
Meeting 1, September 20, 2007

After a round of introductions, MSA staff gave a "Stormwater 101" presentation, an introduction to the basic principles, science and engineering of stormwater management.

Following this, MSA staff provided an overview of municipal stormwater management activities, and outlined a range of funding mechanisms including property tax, stormwater utilities, exactions, fees-in-lieu, fees, and special assessments. This included information on how municipalities across the U.S. are involved in stormwater management in a variety of ways, including the funding and maintenance of public infrastructure, regulations and incentives relating to on-site stormwater management on private property, public education, and municipal operations such as street sweeping and leaf collection.

Participants were then given maps of the City and surrounding area, and asked to share their knowledge and perceptions of local stormwater issues by pinpointing locations with flooding and erosion problems, areas with poor water quality, infrastructure maintenance issues, and innovative on-site stormwater management practices. Table 1 and Figure 1 on the following pages represent the results of this exercise.

At the end of meeting 1, MSA distributed disposable cameras and a photolog sheet to each committee member. Each member was give the assignment to take photos of stormwater issues they observe in and around the city, and asked to return their exposed film to MSA via a pre-paid envelope so MSA could develop the photos prior to meeting 2.



	vater Issue Identification Results			Issue Type		
		Flooding	Water Quality	Freeien	Drainage	Aesthetics
Name leff B.	Problem Description	Flooding	Water Quality	Erosion YES	Drainage	Aesthetics
leff B.			YES	163		
leff B.			YES			
Jeff B.			YES			
Jeff B.			YES			
Allison	Station runoff 113 & Fair St.		YES			
Allison	Pebble Stone Development	YES				
Allison	Lack of silt fences construction sites			YES YES		
Allison Allison	Development runoff creating deep trench Creating a waterway			TES	YES	
Allison	DNR trout stream restoration - good				120	YES
Allison	Rain Garden		YES			.20
Allison	City Maintenance runoff -oil		YES			
Aerb Carberry	Vilas Hibbard				YES	
Aerb Carberry	Elizabeth St				YES	
Aerb Carberry	Meadow Views				YES	
Aerb Carberry	Market St	1/50				
Aerb Carberry	High School North Hills	YES			VEO	
Aerb Carberry MJ Hansen	Possible Subdivision Development				YES YES	
MJ Hansen	Rain Garden (Good Thing)		YES		TES	
Kurt Calkins	School Runoff Flooding Issures	YES	120			1
Kurt Calkins	Outlying cropland (many areas)	120	1	YES	1	1
Kurt Calkins	Future Development	YES	1		1	1
Kurt Calkins	Future Development	YES				
Kurt Calkins	Soil Erosion					
Kurt Calkins	Future Development	YES				-
Kurt Calkins	Soil Erosion					
Bill Welch	Development	YES				
Bill Welch	Swlaes/whatever don't work well; will be overloaded by new devel.	YES				
Bill Welch	Swlaes/whatever don't work well; will be overloaded by new devel.	YES				
Bill Welch Bill Welch	Rain Garden City Limits	YES				
Bill Welch	Everywherer the storms enter the creek					
Beanie Ludlum	Main St. Floodplain	YES				
Beanie Ludlum	Sauk St.	120			YES	
Beanie Ludlum	Hwy J (64 House Development)	YES			120	
Beanie Ludlum	Compost Site					
Beanie Ludlum	No storms					
Beanie Ludlum	Concern for Future					
Lynda	Golf Course		YES			
Lynda	Pesitcide runoff		YES			
Lynda	Farmland pesticide runoff		YES			
Lynda	Farmland pesticide runoff		YES			
Lynda	Farmland pesticide runoff New construction	YES	YES			
Lynda Lynda	All school have a lot of parking lots, etc	TEO			YES	
Lynda	Flooding	YES			120	
Craig Ness	Floodplain Area	YES				
Craig Ness	No drain system	. 20			YES	
Craig Ness	Compost Pile				_	
Craig Ness	School Lot				YES	
Jeff B.					YES	
Jeff B.				YES		
Allison	Rain Garden				YES	
Aerb Carberry	High School		+		YES	1/50
MJ Hansen	Possible Subdivision Development		VES			YES
Kurt Calkins Kurt Calkins	School Runoff Flooding Issures Future Development		YES YES			1
Kurt Calkins	Future Development		YES			1
Kurt Calkins	Future Development		YES			
Bill Welch	Development			YES		1
Bill Welch	Swlaes/whatever don't work well; will be overloaded by new devel.			YES		
Bill Welch	Swlaes/whatever don't work well; will be overloaded by new devel.			YES		
Bill Welch	Rain Garden		YES			
Beanie Ludlum	Sauk St.	YES				
Beanie Ludlum	Hwy J (64 House Development)		YES			
Jeff B.			1	1/50	YES	
Kurt Calkins	Future Development			YES		
Kurt Calkins Kurt Calkins	Future Development Future Development		+	YES YES		
Bill Welch	Development		1 1	159	YES	1
Bill Welch	Swlaes/whatever don't work well; will be overloaded by new devel.		+		YES	1
Bill Welch	Swlaes/whatever don't work well; will be overloaded by new devel.		+		YES	
Bill Welch	Rain Garden				YES	
Beanie Ludlum	Hwy J (64 House Development)		1	YES	. 20	1
Bill Welch	Development		1 1	. 20		YES
Bill Welch	Swlaes/whatever don't work well; will be overloaded by new devel.					YES
Bill Welch	Swlaes/whatever don't work well; will be overloaded by new devel.					YES
Bill Welch	Rain Garden					YES
Beanie Ludlum	Hwy J (64 House Development)				YES	
Bill Welch	Rain Garden			YES		

Meeting 2, October 4, 2007

At meeting 2, all the photos taken by stakeholder committee members were posted on in the front of the room. Each committee member was then given the opportunity to talk about one or more of their photos and explain why the image was significant to them. Photos included leaves and grassclippings along residential curbs, examples of erosion occurring within the city, parking lots, new construction and associated stormwater impacts, a rain garden, marshlands near the city, and more. See Appendix 1 for complete record of the photolog exercise, including all images taken by stakeholders.

After committee members shared knowledge and opinions about local stormwater issues through photographs, MSA staff facilitated a discussion about current and potential future stormwater management activities performed by the City of Lodi, which can be categorized into three types:

- 1. Procedural (street sweeping, cleaning storm drains)
- 2. Capital (building stormwater infiltration systems and/or storm drains)
- 3. Regulatory (ordinances regarding stormwater management during construction or post construction)

Based on information gathered from the Department of Public Works, MSA compiled and distributed a list of current municipal stormwater management activities performed in the City of Lodi and supported by property tax dollars, as summarized in Table 2.

When asked to suggest changes or improvements to the existing stormwater program, committee members mentioned the following items

- ➢ Leaf Pickup
- Increased Public Education
- Improved enforcement of existing regulations
- Capital improvements to mitigate erosion occurring behind high school
- > Infiltration/bioretention facility at the Department of Public Works site

Importantly, members wanted to know which options would be most cost effective and have the most actual impact (reducing and or improving the quality of stormwater run-off). Also, several members asked many questions about relative impacts to the Spring Creek Watershed coming from the City of Lodi when compared to surrounding rural areas.

Procedural	
1. Catch Basin Cleaning	All sumped catch basins cleaned every 2 years
2. Catch Basin Repair	As needed
3. Outfall Repair	2 per year
4. Ditch Maintenance/Brush	Industrial park ditches cleaned every 5 years
5. Detention Pond Cleaning	Each public pond cleaned every 25 years
6. Storm Sewer Main Cleaning	Jetting as needed
7. Refuse Cleanup & Disposal	After rain events; approximately 2 weeks of staff time per year
8. Storm Sewer Televising	As needed
9. Curb & Gutter Repair	As needed
10. Storm Sewer System Mapping	Currently working with consultant to convert paper maps into GIS database and mapping; approximately 10 hours staff time per year thereafter for updates
11. Stormwater Master Planning	City has hired a consultant to develop 10-year plan
12. Leaf/Grass Removal	Residents take to city compost site, or sweep into street and City sweeps with sweeper
13. Mowing	6 weeks seasonal staff time per year
14. Storm Sewer Stenciling	Decals installed during development
15. CIP Development and	6 week per yr staff time
16. Grant Writing and	As needed
17. Street Sweeping	Weekly downtown; monthly elsewhere
Capital	
18. Capital Improvements	Storm infrastructure and curb and gutter for street projects; other storm improvement projects
Regulatory	
19. Erosion control and stormwater management permit review	2 reviews per year
20. Erosion control and stormwater mgmt site inspection	Building Inspector inspects residential sites
21. Erosion control and stormwater mgmt site enforcement	1 per year

Table 2: City of Lodi Stormwater Management Activities

fable 3: De	etailed Stormwater Management Programs Suggested by Participants				Group A			Gro	ир В
	Description [current level of service]	QTY	Unit Cost	Total Cost	Comments	QTY	Unit Cost	Total Cost	Comments
	Catch-Basin Cleaning [\$10 per catch basin]	212.00	\$10	\$2,120		212.00	\$10	\$2,120	
	Mowing [6 weeks seasonal staff time]	6.00	\$1,100	\$6,600		4.00	\$1,100	\$4,400	
	Pond Excavation [each of the 4 public ponds cleaned every 25 yrs [1 per 6.25 yrs]	0.16	\$25,000	\$4,000		0.16	\$25,000	\$4,000	
	Refuse Clean Up & Disposal [\$300 per cleanup]	8.00	\$300	\$2,400		8.00	\$300	\$2,400	
	Ditch Maintenance/Brush Control [\$5,000 per cleaning of industrial park ditches, every 5 yrs]	0.20	\$5,000	\$1,000		0.20	\$5,000	\$1,000	
	Leaf & Grass Clipping Management [2 weeks per year staff time]	2.00	\$1,100	\$2,200		2.00	\$1,100	\$2,200	
isting	Curb & Gutter Repair [\$20 per lineal foot]	54.00	\$20	\$1,080		54.00	\$20	\$1,080	
ogram	Outfall Rapair [\$900 per repair]	2.00	\$900	\$1,800		2.00	\$900	\$1,800	
ements	Street Sweeping [\$150 per downtown sweep. City sweep downtown every week April-Nov]	28.00	\$150	\$4,200		28.00	\$150	\$4,200	
	Street Sweeping [\$1500 per Citywide Sweep, excluding downtown. Entire City swept monthly]	7.00	\$1,200	\$8,400		7.00	\$1,200	\$8,400	
	Stormwater Master Plan [\$10,000 per 10-year plan]	0.10	\$10,000	\$1,000		0.10	\$10,000	\$1,000	
	Storm Sewer Sytem Map Updates [Annual update]	1.00	\$1,800	\$1,800		1.00	\$1,800	\$1,800	
	Stormwater/Erosion Site Enforcement [\$250 per action]	1.00	\$250	\$250		3.00	\$250	\$750	Increase, but charge to developer
	Capital Improvements [Storm infrastructure for street projects]	1.00	\$40,000	\$40,000		1.00	\$40,000	\$40,000	
	Capital Improvements [Storm infrastructure construction or improvements]	1.00	\$10,000	\$10,000		1.00	\$10,000	\$10,000	
	CIP Development and Maintenance /\$ 700 per week of staff time]	6.00	\$1,700	\$10,200		6.00	\$1,700	\$10,200	
	Subtotal Cost for Existing Elements			\$ 97,050				\$ 95,350	
	Street Sweeping - Replace Mechanical Sweeper with a vacuum sweeper, financed over 10-yrs	1.00	\$15,000	\$15,000		1.00	\$15,000	\$15,000	
	Leaf Removal [Purchase vacuum truck for leaf collection, financed over 15 years]	0.20	\$15,000	\$3,000	Instead of purchasing a vacuum truck, pick up bagged leaves from curbside twice annually in the fall	0.00	\$15,000	\$0	
	Inlet Inspection & Cleaning 133,500 per Citywide Cleaning]	0.20	\$3,500	\$700	Requires further investigation; budgeted 20%	0.00	\$3,500	\$0	
	Construct on Site/Erosion Control [Ordinance Adoption, one-time cost]	0.50	\$2,300	\$1,150	Grant funded at 50%	0.00	\$2,300	\$0	
	Post-Construction Stormwater Management [Ordinance Adoption, one-time cost]	0.50	\$2,300	\$1,150	Grant funded at 50%	0.00	\$2,300	\$0	
	Illicit Discharge Detection and Elimination [Ordinance Adoption, one-time cost]	0.50	\$2,300	\$1,150	Grant funded at 50%	0.50	\$2,300	\$1,150	
	Erosion Control Plan Review/Inspection <i>\$500 per site</i>	0.00	\$500	\$0	City should do this, and increase inspection/enforcement program, but all costs should be charged back to the developed	0.00	\$500	\$0	costs for construction inspection should be charged developers
	Stormwater Plan Review/Inspection/Enforcement \$500 per site	0.00	\$500	\$0	City should do this, and increase inspection/enforcement program, but all costs should be charged back to the developed	0.00	\$500	\$0	costs for construction inspection should be charged developers
	Illicit Discharge Program Implementation [min. program is 20% of the outfalls/yr; \$3500/yr]	0.43	\$3,500	\$1,505		1.00	\$3,500	\$3,500	
	Capital Improvement Projects [outfall treatment between railroad and Pleasant St.]	0.02	\$40,000	\$800	Requires further investigation; budgeted 20%, finance over 10 years	0.00	\$40,000	\$0	
otential	Capital Improvement Projects [outfall treatment near Portage and Spring St.]	0.02	\$40,000	\$800	Requires further investigation; budgeted 20%, finance over 10 years	0.00	\$40,000	\$0	
Add-On lements	Capital Improvement Projects [outfall treatment near Main and Fair Street]	0.02	\$40,000	\$800	Requires further investigation; budgeted 20%, finance over 10 years	0.00	\$40,000	\$0	
	Capital Improvement Projects [Middle School Rain Garden]	0.50	\$15,000	\$7,500	Reduce costs by involving Middle School Students	0.00	\$15,000	\$0	
	Capital Improvement Projects [Stormwater MANAGEMENT DEVICE behind City public works building]	0.02	\$30,000	\$600	Requires further investigation; budgeted 20%, finance over 10 years	0.05	\$30,000	\$1,500	
	Capital Improvement Projects [Stabilize eroding areas behind high school]	0.02	\$50,000	\$1,000	Requires further investigation; budgeted 20%, finance over 10 years	0.00	\$50,000	\$0	
	Storm Sewer Stenciling [\$10 per inlet, 500 inlets Citywide]	100.00	\$10	\$1,000	Reduce costs by getting volunteer students/organizations	0.00	\$10	\$0	
	Public Information/Education [Educational website, \$4,000, start-up]	0.50	\$4,000	\$2,000	Instead of an expensive website, just add one page to existing City site, and send out educational article 2x per year with utility bill	0.50	\$4,000	\$2,000	Instead of an expensive website, just add one page existing City site, and send out educational articles utility bill
	Public Information/Education [School program, \$2,500]	0.50	\$2,500	\$1,250		1.00	\$2,500	\$2,500	Education could be partially funded and/or accompl by non-profit, recommended a focus on public educ
	Public Involvement/Engagement [Educational sign for rain garden, \$2,500]	0.50	\$2,500	\$1,250	Reduce costs by combining with other programs Reduce costs by having Middle School Students design sign and finding a donor to construct it	1.00	\$2,500	\$2,500	with regard to composting
	Grant Writing and Admin. [\$2,000 per grant]	1.00	\$2,000	\$2,000		1.00	\$2,000	\$2,000	
	Subtotal Cost for Add On Elements			\$ 42,655				\$ 30,150	
-	Total Cost for "Ideal" Stormwater Management Program			\$139,705				\$125,500	

Program Element	Group A Suggested Cost	Group B Suggested Cost
Existing Elements	\$97,050	\$95,35 0
Potential Add-Ons	\$42,655	\$30,150
Total Program	\$139,705	\$125,500

Table 3: Summary of Suggested Stormwater Management Programs for Lodi

As summarized in Table 3 above, the annual cost of the "ideal" stormwater management programs designed by participants ranged from \$125,500 to nearly \$140,000 roughly 30% to 50% greater than the estimated cost of the current program (see Table 4 for details and participants' comments).

Meeting 4, October 18, 2007

Meeting four began with presentation of the results of the budgeting exercise from meeting three, followed by a presentation about how municipalities use stormwater utilities as alternative funding mechanisms for stormwater management. Annual budget estimates for existing and "ideal" stormwater management programs in Lodi were reviewed. MSA staff explained the differences between funding stormwater management with property tax versus a stormwater utility, sharing data from other communities across the state. MSA shared an overview of how property owners annual stormwater fees would be derived in Lodi based on the relative amount of impervious surface on the property. A copy of the complete presentation made by MSA can be found in Appendix D.

After discussion, participants were asked to share in writing their recommendation regarding the creation of a stormwater utility in Lodi. The results are summarized below and in the Table 4. Additionally, Table 5 is a list of meeting attendees and summary of dates attended by each attendee.

Stakeholder Advisory Committee Member Recommendations

Results of the participants' recommendations regarding the creation of a stormwater utility in Lodi are summarized as follows:

5 members oppose the creation of a stormwater utility

1 member opposes the creation of a stormwater utility at this time

- 3 members neither oppose nor support the creation of a stormwater utility
- 1 member would support a utility under certain conditions

Committee members *undecided about and/or conditionally supportive* of the creation of a stormwater cited the following concerns/conditions:

- A stormwater utility should only be created in the context of implementing a comprehensive plan that addresses stormwater concerns on both a citywide and watershedwide basis.
- Before developing a stormwater utility, the City needs to begin tracking and budgeting stormwater program activities and expenses separately so that there is more and better information on how much the City is actually spending on stormwater.
- The utility should offer credits to customers that attenuate the impacts of stormwater coming off of their property, and discounts to seniors and handicapped customers.
- The City needs to focus more on educating the public about stormwater issues and step up enforcement of existing stormwater and erosion control regulations.
- Any future stormwater utility should be governed directly by the City Council and Public Works Board, rather than a new board or commission.

Among committee members that were *opposed to the creation of a stormwater utility*, the following concerns were most commonly cited:

- Tracking stormwater activities and expenses separately would give City stronger case to develop utility at a later time.
- A comprehensive, watershedwide study and plan is needed before a utility can/should be implemented.

- The City of Lodi is only 10% of the Spring Creek watershed, so anything the City does to improve the quality of its runoff will have negligible impact if the surrounding townships don't do their part.
- > The City needs better enforcement of existing regulations.
- > The City should focus on public education to address runoff concerns.
- The City should not add a new utility fee unless property taxes are decreased by proportional amount.

Name (Title)	Representing	Meeting 1	Meeting 2	Meeting 3	Meeting 4
Mary Jane Hansen (Controller)	Alkar-Rapidpak	Х	Х	X	Х
Bill Welch	Friends of Scenic Lodi Valley	Х	Х		Х
Jeff Blankenship	Lodi Chamber/L.O.D.I.	Х	Х	X	Х
Irene "Beanie" Ludlum	Main St. Liquor	Х	Х	Х	Х
Craig Ness	Ness Auto Sales	Х	Х		Х
Herbert Carberry		Х	Х	Х	Х
Allison Seaton	Friends of Scenic Lodi Valley	Х	Х	Х	Х
Bob Goeres	Lodi Canning		Х	X	Х
Chris Conlon	Anteco Phorms		Х	X	Х
Bruce Bushnell	Bushnell Ford		Х	X	Х
Lynda McGinnity (Board Member)	Three Bats in the Belfry/Chamber	Х		X	
Kurt R. Calkins	LWCD Columbia County	Х			
Ken Paul	School District of Lodi		Х		

Table 4. City of Lodi Stormwater Advisory Committee Attendees

Follow-Up Watershed Planning Meeting, November 14, 2007

In response to the strong consensus among City Stormwater Stakeholder Advisory Committee members regarding the need for a watershed-wide study and planning effort to better understand the nature and magnitude of factors contributing the impairment of Spring Creek, and the most effective and economical means of addressing these factors, Mayor Paul Fisk called a meeting of watershed stakeholders. The meeting was held on Tuesday, November 14, in City Hall, and was attended by representatives of each of the following entities:

- City of Lodi (Paul Fisk, Mayor; Ann Dansart & Eric Thompson, MSA Professional Services, City Consulting Engineer)
- Town of Lodi, (Roger Wetzel, Town Board Chair)
- Dane County (Susan Jones, Lakes and Watershed Commission Director)
- WDNR Fisheries Management Program (Tim Larson)
- WDNR Lower Wisconsin River Basin Team (James "Andy" Morton, Basin Supervisor & Jean Unmuth, Water Quality Specialist)

(Columbia County Conservationist Kurt Calkins also planned to attend the meeting, but was unable to make it at the last minute due to a work emergency. Mr. Calkins has also indicated an interest in being involved in runoff issues within the watershed. Columbia County UW-Extension staff agreed by phone to be involved in the upcoming watershed planning efforts.)

The meeting agenda primarily consisted of addressing of the following questions:

- Is their interest among group members in working on watershed-wide planning effort?
- If so, how would this be accomplished?

The consensus of the group was strongly in favor of working together a watershed planning effort. All entities were willing to support and/or participate in the effort at some level.

The short-term plan developed by the group at this meeting consists of two parts:

- 1. Undertake a preliminary watershed management study, to be used as the basis to apply for additional grant funding for more in-depth watershed planning, and/or the implementation of the planning study's recommendation
- 2. Facilitate the formation of a watershed planning consortium to oversee the initial watershed planning effort and subsequent plan implementation and/or future targeted planning efforts.

The preliminary watershed planning effort would involve using existing available data to characterize the current state of the Spring Creek stream, and identify and quantify current threats to the stream's status as a coldwater stream able to support a trout fishery. The planning study would also attempt to identify alternative approaches towards addressing these threats in cost-effectiveness manner.

The watershed planning consortium would consist of broad stakeholder representation, including representative from of each municipality, township, and county in the watershed. Additionally, representatives of local watershed organizations, (such as the Friends of Scenic Lodi Valley and

Meeting 3, October 11, 2007

MSA staff began this meeting by sharing and presenting information collected from the WI DNR and other sources on the Spring Creek Watershed to begin to address participants' questions about water quality data and the urban versus rural contribution to problems in Spring Creek. The presentation also included information about the types of activities and practices that could be implemented to reduce the impact of runoff on the Creek. A copy of the complete presentation can be found in Appendix C.

This presentation sparked a lengthy discussion about shared responsibility among residents and farmers in the City of Lodi and surrounding area. While existing studies in the Spring Creek area to not reflect ecological crisis or severely degraded water quality, participants generally agreed that it is very important to protect as viable trout habitat and a treasured natural resource for area residents. Participants understood the importance of proactive planning for stormwater management, especially as urban development continues in the Lodi area. However, some participants were

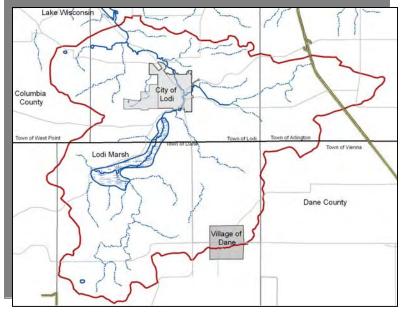


Figure 2: The Spring Creek Watershed

concerned that the City of Lodi may increase funding for stormwater management activities, yet have a minimal affect on the overall quality of Spring Creek. Others suggested monitoring water flow, water quality, and water temperature at various locations in the creek over time, in order to measure the affects of both existing and new stormwater management practices.

Following this discussion, MSA facilitated a budgeting exercise to begin to define priorities for stormwater management in the City of Lodi. Participants were divided into two groups for the exercise, and each group was provided two sets of cards. The first set described *existing elements* of the municipal stormwater program, including their frequency and estimated annual cost to City of Lodi taxpayers. Participants were first asked to assess these activities and decide whether or not they were important to maintain (or enhance) within an ideal stormwater management program. Next, participants were given a set of cards representing *potential add-on elements* stormwater management activities, along with estimated annual costs based on research and experience in other Wisconsin communities. Participants were asked whether they would like to see any of the potential activities included in a future Lodi stormwater management program.

Trout Unlimited), the WDNR, the City Stakeholder Committee, and one or more local high school student(s) would be invited to participate. The group would be facilitated by Columbia County UW-Extension.

As previously mentioned, each entity represented at the meeting agreed to support the watershed planning and restoration process. Listed below are specific tasks to be undertaken by each.

- Dane County- will compile and summarize all of its water quality, runoff and land use/cover information on Spring Creek watershed and provide this information to the City of Lodi and its consulting engineer for incorporation into the overall watershed-wide planning effort. The County will also investigate and follow-up on rural or agricultural lands within Dane County found to be contributing excessively to water quality impairment of Spring Creek.
- WDNR Fisheries Management Program will compile, and summarize all information on Spring Creek fisheries and past habitat restoration efforts, and provide this information to the City of Lodi and its consulting engineer for incorporation into the overall watershed-wide planning effort.
- WDNR Lower Wisconsin River Basin Team will compile, and summarize all of its water quality data and watershed information and provide this information to the City of Lodi and its consulting engineer for incorporation into the overall watershed-wide planning effort.
- City of Lodi-will work with its consulting engineer to compile the information provided by Dane County and WDNR, and refine the scope of its current stormwater analysis and planning efforts to include an analysis of the impact of Lodi runoff on Spring Creek within the context of the entire Spring Creek Watershed, including areas outside the City. The City will also assist in the formation of the watershed consortium.
- Town of Lodi-A representative of the town will serve on the watershed consortium.

UW-Extension-Columbia County/Southern Counties Community Partner Advisory Group Liason Kathleen J. Haas has agreed to assist with the formation of the watershed consortium, and facilitate their ongoing meetings.

Anonymous			I neither supp
Anonymous	I conditionally support the creation of a utility if credits provided for personal remediation and control of stormwater utility is controlled and governed directly by City Council, i.e. public works committee, not an "extra" board or commission.	I oppose the creation of a utility if city does not create short and long range plans for management. City needs to enter into intergovernmental efforts to create a comprehensive watershed plan. The City needs to "pull out" stormwater management budget for better monitoring and control of activities.	
Anonymous		Throughout the meeting we discussed issues on current problems and improvements we can make. We all agreed that although we may not have pressing problems we should stay in control and move forward. I think that to move forward more than a utility to fund it we need a good plan. That plan should include education and ideas on the actual costs of the projects other than guessing. I think with 90% of the runoff being produced by outside the city, the city could only make a very small difference in water quality even with a utility. I think they could produce better results by focusing on education and enforcement of current subject, but a decision like this requires a lot more information than we were given.	
Jeff Blankenship		Not enough data. No stated problem potential for adding fees that don't directly offset taxes. More explanation of existing plans and enforcement issues. Need to identify the actual causes of real problems, i.e. if property owners are responsible for their runoff issues, how much of the problem goes away? What are the true areas of impact vs. perceived? You cannot add a utility fee without reducing property tax the same amount. Look for ordinance and enforcement solutions, as well as incentive based solutions, i.e. tax credit for rain gardens, or other systems to cool or filter runoff.	
Bruce Bushnell		City of Lodi does not need a separate stormwater utility. Points: The City is only 10% of Spring Creek watershed. I do not want to see another department created as I feel the City Council then looses part control of money spent. It appears the City does a good job of controlling growth of subdivisions and water runoff. Several holding ponds have been built to help control and collect runoff, public education could be an important aspect of keeping Spring Creek water clear at little cost to City of Lodi taxpayers.	
Herbert Carberry		I do not see the need for this at this time. What I do see is an education and policy problem i.e. construct site water retainers are knocked down by their equipment. Need better control over the problem of leaves in storm sewer, suggest limiting planting of trees near streets. Overall the City is doing a fine job and I see no need for additional depts and expense.	
Chris Conlon			Eventually a sto criteria. 1) Educ effort and cost. 2 the benefits. 3) (4) Have public in
Bob Goeres			The city needs t comprehensive long term. With needs to addres important. To in grate/gutter clea residents, not gr
Mary Jane Hansen		<i>I oppose the creation of a utility at this time.</i> Planning future development is critical to maintaining the current quality of life which makes Lodi and area desirable. Plan should include maintaining and improving Lodi's contribution to the watershed. Current budget/spending should be reviewed monitored for actual costs related to stormwater without adding excessive additional administrative costs. If in the event a utility is addressed, seniors, handicapped etc. should be given special consideration and relief so they may continue to live here. Concern with a utility is yet another fee which could become out of control.	
Irene "Beanie" Ludum		I believe that the city needs to educate people on the issues of storm water. There needs to be a plan for the entire watershed for Spring Creek, not just the City of Lodi which only makes up 10% of the watershed. The public works department has been doing a great job with a lot of the stormwater issues. I think that tracking there time spent on stormwater may give the City a stronger case to develop another utility, but at this time there is no need.	
Allison Seaton			Would like to se Dane County, D municipalities, to

stormwater utility should be established based on the following ucating and informing the proposed participants of the current st. 2) Establishing a concise plan stormwater mgmt. highlighting 3) Outline the benefits by eliminating or reducing capital costs. c input and support.

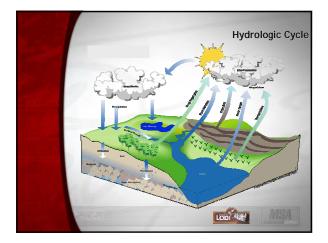
Is to meet and/or exceed the WPDES standards. A ve plan for stormwater needs to be formulated – short term and ith the City of Lodi at 10% of watershed the total watershed area ress and be involved with forming a plan. Education of public is inform what the city currently does i.e., street sweeping, cleaning and what more is needed i.e., leave removal by t grass into street gutter...market the idea to public.

see a Spring Creek watershed in depth study that includes DATCAP, DNR! This should involve developers, farmers, , townships, shoreline residents.

Appendix 1A Stormwater 101 Presentation Slides



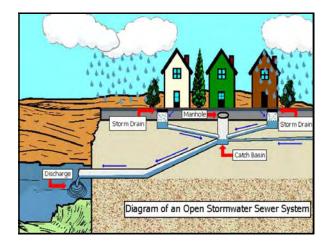










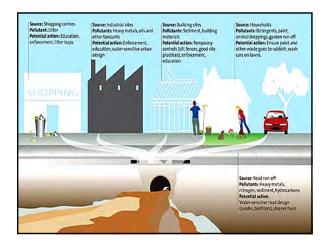




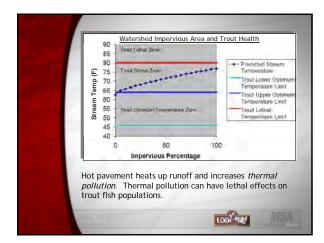


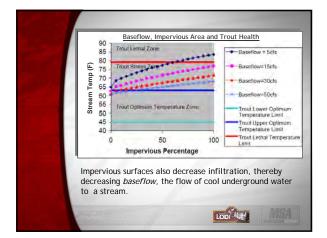






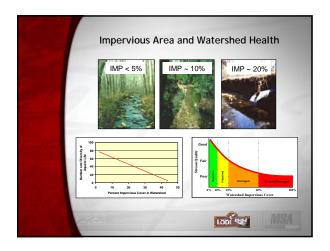


















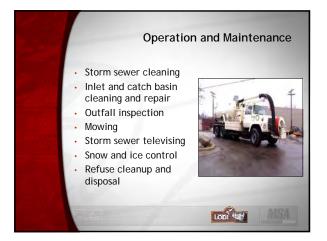


<u>Appendix 1B</u> Municipal Stormwater Management ぐ Funding Mechanisms Presentation Slides

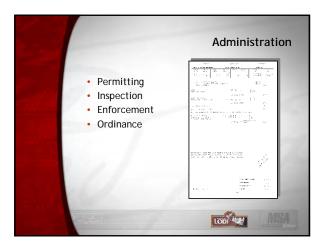


Plan. Capital Improvements Water					
	Plan, Design, Admin.	Operation & Maintenance	Existing Development	New Development	Qua (NPI
General Fund	Х	x	х		1
Special District		x	x		
Bonds		x	x		
Sinking Fund			x)
Exactions & Fees-in-Lieu				х	
Grants	х		x		×
Fees/Fines	х				×
Stormwater Utility	x	x	x		×





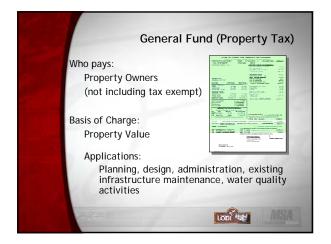






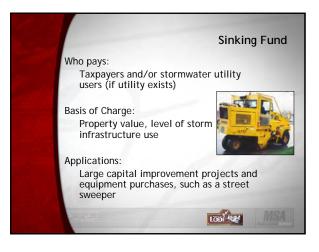






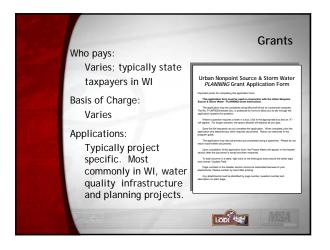


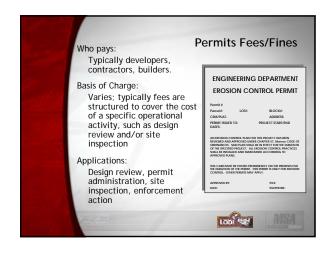


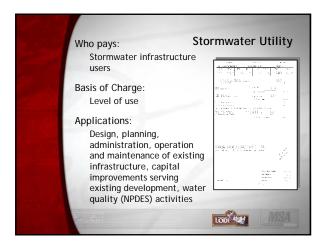














Appendix 2 Photolog Activity Results

Appendix 2: Photolog Exercise

Participants were asked to take photos and provide descriptions of stormwater issues in and around the City of Lodi. Information provided by participants is provided in the table below, and corresponds with photos on the following pages.

Camera #	Photo #	+/-	Subject of Photo	Location of Photo
	1	-	Construction Sites	Lack of Erosion Control
	2	-	Construction Sites	Lack of Erosion Control
17	3	-	Construction Sites	Lack of Erosion Control
	4	-		Increased impervious areas
	5	-		Loss of infiltration duct to growth
	1	-	Grass clippings in street	216 Millston Ave.
	2	+	Roof drainage to Park lot	208 S. Main
	3	-	Park lot lacks storm drainage	Lot eastside Main Street on Spring Street
	4		Silt on sidewalk from street runoff	220 Sauk Street
	4 5	-		
		\frown	Grass clippings	514 Seminary Street
	6	- \	Improper dramages	Main Street Centre
18	7	n^{-1}	No storm/sewer	Piggly Wiggly
	8		Tree leaves in street	116 Washington Ave.
	9		Leaves plugging drain	Grant & Market
	10	†	Grass clippings in street	204 Lodi Street
	11	<u>+</u>	Parking lot drain	105 1 st Street
	12	V+/-/	Park and trees over hanging creek	City Park
	13	#	Park land	City Park
	14	/-	Leaves in creek	At City Park
	$15 \lor +/-$ Trees and weeds over hanging creek			Vets Memorial Park
	1	+	Marsh	N. Main Street Great Natural Filtration
	2	+	Park	Natural Filtration
19	3	+	Sea lever gauge in creek	Behind treatment plant
19	4	+	Rain gauge	Treatment plant
	5	-	Field 62 house development	Hwy J
	6	-	Field 62 house development	
	7	+	Runoff natural filtration	Behind 216 N. Main
	1	-	Slope runoff	City Park
	2	-	Slope runoff	Apart & Landscape runoff
	3	-	Slope runoff	Issue from above
	4	-	Slope runoff	Drainage and where bark is if grass not cut bark in lawn
	5	-	Parking lot runoff	
20	6	-	Back corner lot	Problem from runoff
20	7	-	Runoff no grade	End of curb Dev. Drive
	8	+/-	Runoff area/grass clippings	Opposite side of road (Dev Drive
	9	-	Runoff site in road	Dev Drive & Vilas Hubbard
	10	+	Erosion Control rocks & ditches	North end Lodi Golf Course/Industrial Park Road
	11	+/-	Potential issue plugged culvert	Can't dry out on top
	12	+	Gully ditch for runoff	Golf course

Camera #	Photo #	+/-	Subject of Photo	Location of Photo
	1	+	Home rain garden	116 Merton Ave.
	2	-	Clogged drain	
	3	-	Sink where sewage	
21	4	-	Drainage washout behind HS	
21	5	-	Over development	
	6	+/-	Retention pond/ditch pebblestone dev	
	7	+/-	Rain garden/outlet into creek	
	8	+	Wastewater plant	
	1	-	High School Parking lot	
	2	-	New construction	Condo construction across from Middle School
	3	+	Middle School Prairie Garden	On Golf Course Hill
	4	?	Good or Bad? Runoff from Golf course	Strangeway pours onto street
22	5	-	Storm	Runs downhill into picture
22	6	-	Runoff swale bitm from golf course plus farmland chemicals Main Street Bridge construction	
	7	- \	Main Street Bridge construction	
	8	$\overline{\mathbf{C}}$	Gas stations next to creek	
	9		Different directions parking lot	Hwy 60
	10	+	New rain garden	Main Street
	1	+	Downspout tiled to Street	53 Vilas Hubbard
	2	\mathcal{V}	Grass/pesticide sign	Stop sign Strangeway & Vilas Hubbard
	3	-	Unsecured construction site	Fieldstone Drive
	4	/-	Storm sewer grid	Fieldstone Drive
	5	-	Storm sewer gutter grid	Fieldstone Drive
	6	-	Secured and unsecured sites	W. Sunset
	7	-	Poor engineering	Ellie Rae Drive
	8	-	Construction site erosion	W. Sunset Drive
	9	-	Unsecured dirt pile	W. Sunset Drive
	10	-	Dumpsters on SC bank	Spring Creek Tavern
	11	-	Unique roof drain	Gausers
	12	-	Golf Course drain	Strangeway
25	13	-	BP oil slick to drain	Portage
	14	-	Assco. Bank lot runoff	#60 and #118
	15	-	Bank lot gully into creek	" and "
	16	-	Okee Bay	Okee #113 Spring Creek
	17	-	Green algae Okee Bay	Okee #113 Spring Creek
	18	-	Lodi Public Works runoff	#60 Public Works garage area
	19	-	Lodi Public Works runoff	#60 Public Works garage area
	20	-	Canning Co. culvert	#60 across from Col. Cty garage
l	21	+	Rain garden over flow	#60, 113 Pleasant St.
	22	-	Pebblestone runoff to marsh	#60 between Canning Co and Mc Cully Road
	23	-	Pit detention runoff to marsh	#60 next to Canning Co. driveway
	24	-	Pit detention and spillway	Behind 330 Lodi St. Public Works site





2







































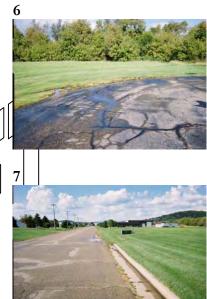




























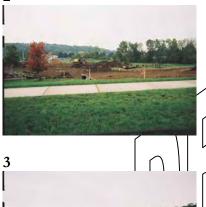




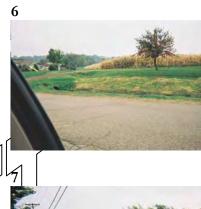
Camera 22

























Camera 25





















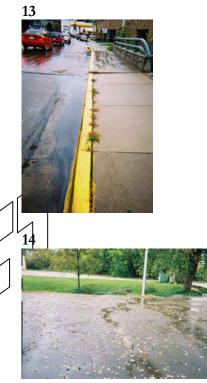






















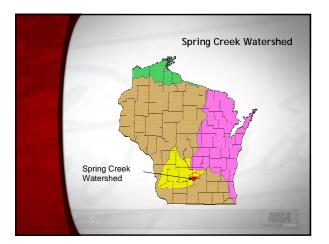




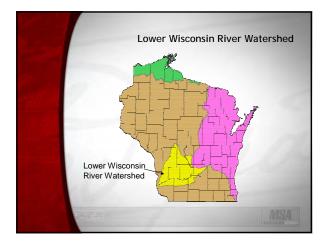
Appendix 3A Spring Creek Watershed Presentation Slides

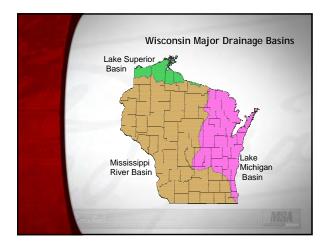


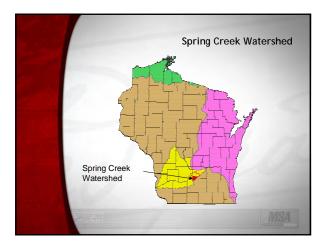


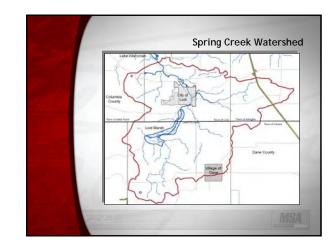


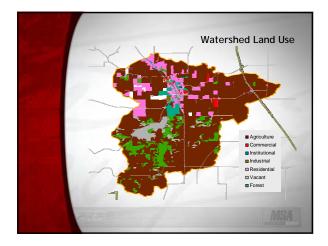


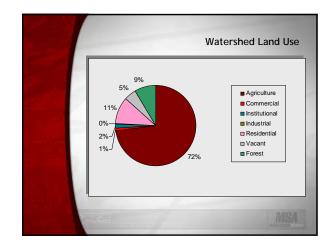


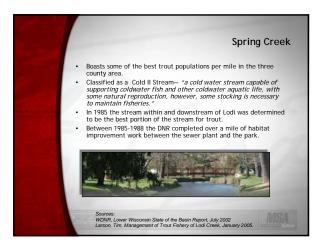




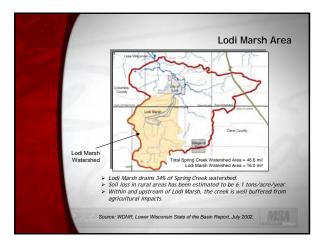


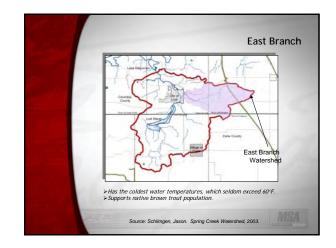


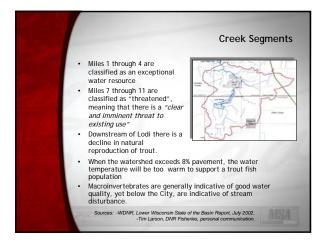












Appendix 3B

Stormwater Best Management Practices Presentation Slides



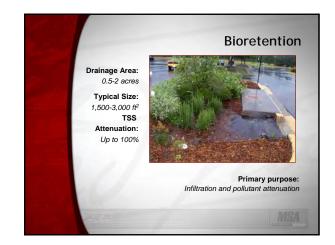


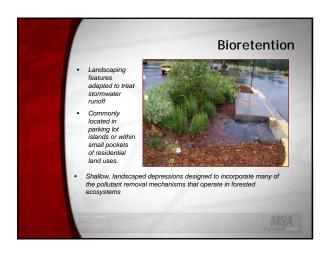


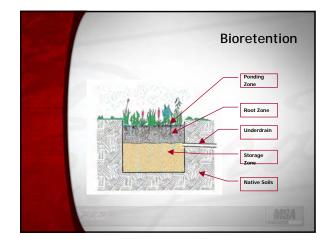




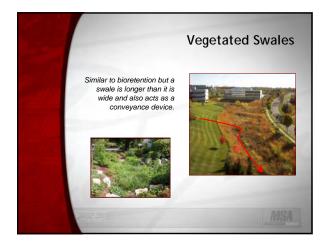


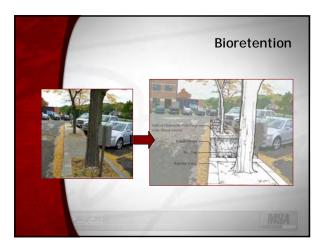










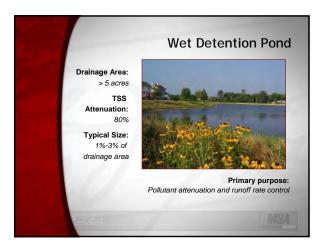




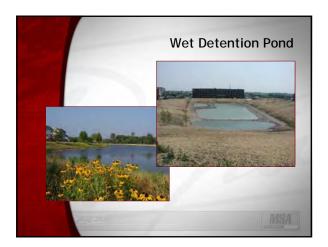


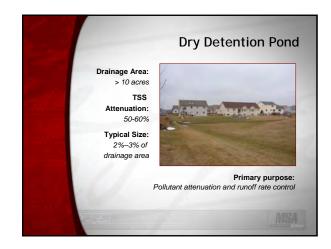




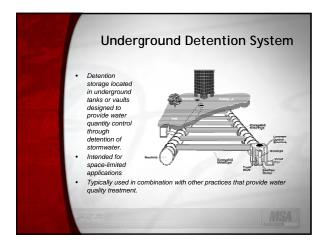


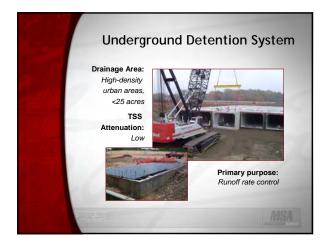


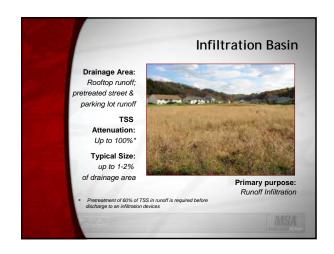










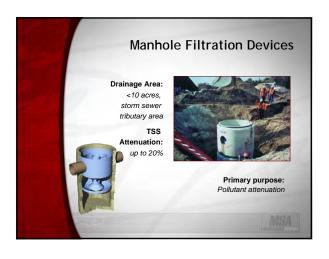




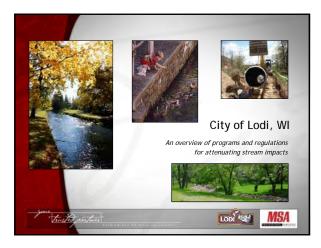




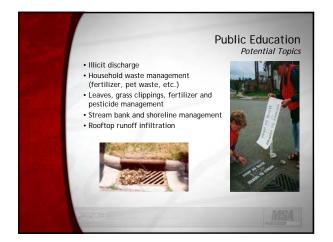




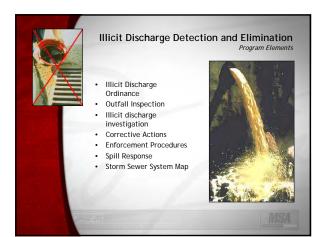


















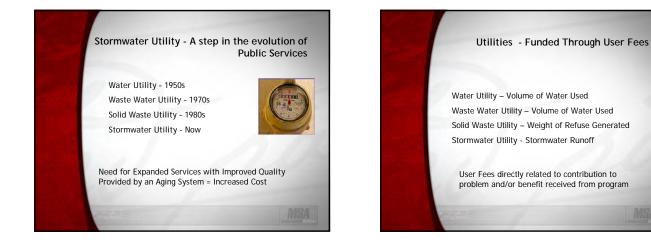


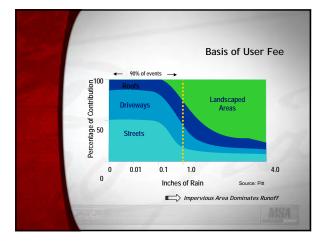
Appendix 3B

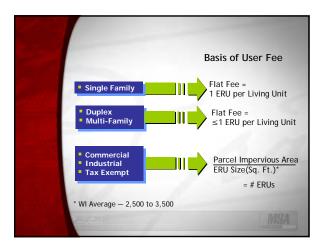
Stormwater Utility Presentation Slides

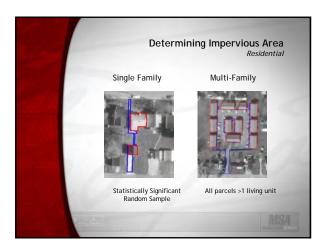














	Determine ERU Si	ze
Impervious	area associated with all	residential parce
	Average Impervious Area Per Living Unit	Approximate Numbe Units Citywide
Single-Family	3,371	774
Duplexes	2,594	60
Multi-Family	1,915	193

